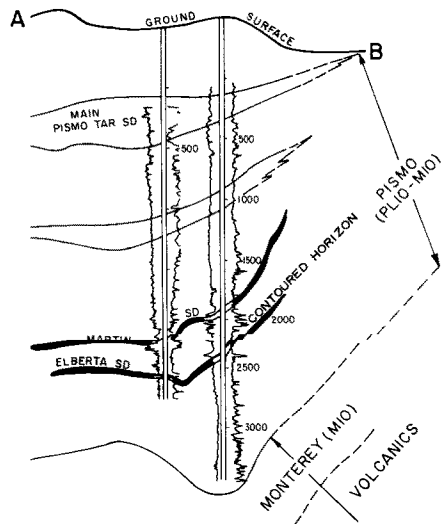
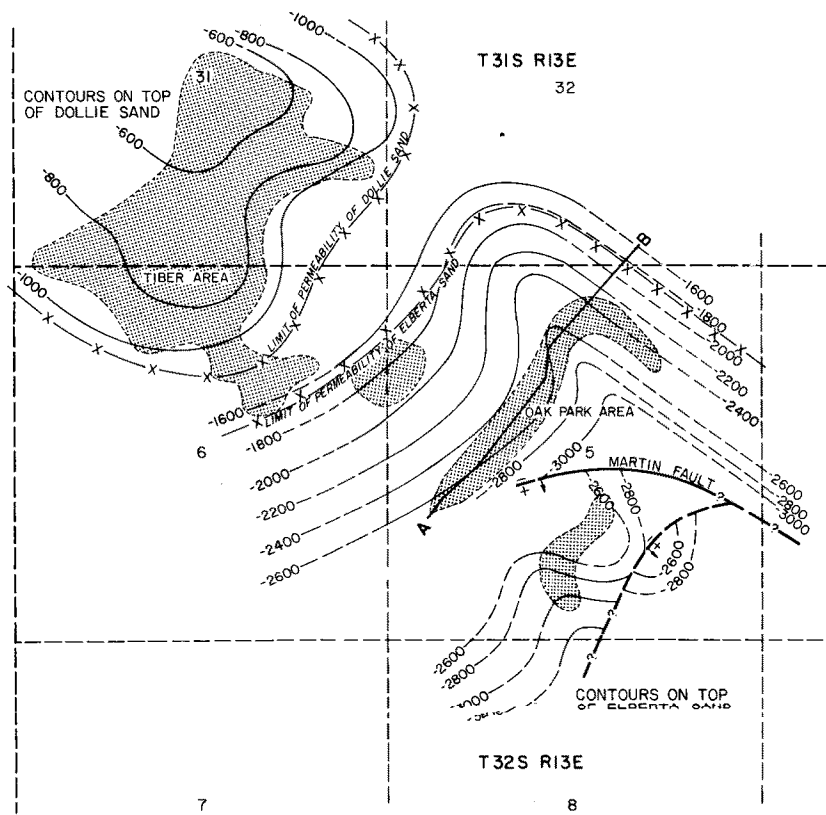


ARROYO GRANDE OIL FIELD



CALIFORNIA DIVISION OF OIL AND GAS

ARROYO GRANDE OIL FIELD

San Luis Obispo County

LOCATION: 18 miles northwest of Santa Maria

TYPE OF TRAP: See areas

ELEVATION: 100 - 600

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Dollie	Mindevco, Inc. "Tiber" 1	Tiber Pacific Oil Co. "Tiber" 1	6 32S 13E	MD	N.A.	N.A.	Jul 1906

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
C. W. Colgrove "Elberta" 1-5	Same	Nov 1949	5 32S 13E	MD	10,142	Monterey	Miocene

PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

PRODUCTION DATA (Jan. 1, 1974)

1973 Production			1973 Proved acreage	1973 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
47,610	0	239,144	410	23	3,420,508	32,364	170,438	1968	145	96	480

STIMULATION DATA (Jan. 1, 1974) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas

BASE OF FRESH WATER: See areas

CURRENT CASING PROGRAM: See areas

METHOD OF WASTE DISPOSAL: See areas

REMARKS:

REFERENCES: Krueger, M.L., Arroyo Grande (Edna) Oil Field: Calif. Div. of Mines Bull. 118, p. 450 (1938).
 Lawrence, E.D., Arroyo Grande (Edna) Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1, p. 41 (1958).
 McLaughlin, R.P., and C.A. Waring, Petroleum Industry of California: Calif. Mining Bureau Bull. 69, p. 430 (1914).
 Vander Leek, L., Petroleum Resources of California: Calif. State Mining Bureau Bull. 89, p. 95 (1921).

CALIFORNIA DIVISION OF OIL AND GAS

OAK PARK AREA

ARROYO GRANDE OIL FIELD

San Luis Obispo County

LOCATION: See map sheet of Arroyo Grande Oil Field

TYPE OF TRAP: Faulted homocline on north limb of Pismo syncline

ELEVATION: 100 - 600

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Martin Elberta	C. A. Maino, et al "Rauschenplat" 6 California Fuel Oil Co., Inc. 5	McKeon Drilling Co., Inc. "Elberta" 2 Elberta Oil Co. "Elberta" 1	5 32S 12E	MD	80	N.A.	May 1929 1930
			5 32S 12E	MD	N.A.	N.A.	

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
C. W. Colgrove "Elberta" 1-5	Same	Nov 1949	5 32S 13E	MD	10,142	Monterey	Miocene

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Martin	2,890	50	early Pliocene - late Mio	Pismo	15	N.A.	None
Elberta	3,100	50	early Pliocene - late Mio	Pismo	14	1,125	None

PRODUCTION DATA (Jan. 1, 1974)

1973 Production			1973 Proved acreage	Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,450	0	485	90	4	N.A.	N.A.	N.A.	N.A.	29	14	110

STIMULATION DATA (Jan. 1, 1974)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: 700 - 1,200

CURRENT CASING PROGRAM: 8 7/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is discharged into unlined sumps (sumps are being phased out).

REMARKS: The water in the Elberta sand contains 26 ppm boron and is unsuitable for irrigation.

REFERENCES:

CALIFORNIA DIVISION OF OIL AND GAS

ARROYO GRANDE OIL FIELD

TIBER AREA

San Luis Obispo County

LOCATION: See map sheet of Arroyo Grande Oil Field

TYPE OF TRAP: Homocline on north limb of Pismo syncline

ELEVATION: 100 - 600

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Dollie Martin	Mindevco, Inc. "Tiber" 1 Getty Oil Co. "Thompson" 1	Tiber Pacific Oil Co. "Tiber" 1 San Luis Obispo Mutual Oil Co. "Mutual Well" 1	6 32S 12E	MD	N.A.	N.A.	Jul 1906
			5 32S 13E	MD	N.A.	N.A.	Nov 1908
Elberta	Same as above	Same as above	5 32S 13E	MD	N.A.	N.A.	Nov 1908

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mindevco, Inc. "Adams" 1	William C. McDuffie "Adams" 1	Jul 1944	31 31S 13E	MD	3,833	Monterey	middle Mio

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Dollie	750	300	early Pliocene - late Mio	Pismo	15	60	None
Martin	2,000	100	early Pliocene - late Mio	Pismo	13	N.A.	None
Elberta	2,500	100	early Pliocene - late Mio	Pismo	13	N.A.	None

PRODUCTION DATA (Jan. 1, 1974)

1973 Production			1973 Proved acreage	1973 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
41,160	0	238,659	320	19	N.A.	N.A.	N.A.	N.A.	116	82	370

STIMULATION DATA (Jan. 1, 1974)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1949	595,030	5
Cyclic steam	1965	228,196	19
Fire flood	1964	197,500	1

SPACING ACT: Does not apply

BASE OF FRESH WATER: 700 - 1,200

CURRENT CASING PROGRAM: 8 7/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected or disposed of into unlined sumps (sumps are being phased out).

REMARKS: Produced water from the Dollie zone has a high concentration of sodium bicarbonate.

REFERENCES: